

Two MSc in Earth Sciences opportunities at St. Francis Xavier University, Antigonish, NS, Canada

St. Francis Xavier University (StFX) seeks applications for two Master of Science students in Earth Sciences. The successful applicants will receive StFX graduate student support, a research stipend, and a student teaching assistantship.

Project A involves an investigation of the mineralogy, geochemical composition, age and critical element potential of pegmatites and granite plutons. The MSc candidate will document the mineralogy using in-situ-analyses of the various mineral phases and determine the age of the mineralization to understand their relative timing with respect to regional deformation/metamorphism/plutonic events.

Project B investigates the petrogenesis of coeval mafic and granitic plutons in northern Scotland. The MSc candidate will use in-situ analytical techniques to determine the age(s), isotopic compositions, source(s) of inheritance, and petrogenesis of plutonic rocks to better understand the timescales of magmatic processes.

The successful candidate for each project will have a BSc in Earth Science or a related field, preferably with research experience, and a minimum B (70%) average. Experience using *in-situ* analytical techniques such as LA-ICP-MS (laser ablation inductively coupled mass-spectrometry) and/or EPMA (electron probe microanalysis) is an asset. The expected start date for Project A is September 2022 and Project B is January 2023.

Interested applicants are encouraged to send a CV, unofficial transcript, a statement of research interests, and the names of and contact information for two referees to Dr. Donnelly Archibald (darchiba@stfx.ca).

StFX is one of Canada's leading primarily undergraduate universities, located in Antigonish Nova Scotia. Our historic residential campus is home to just over 4,200 students from across Canada and internationally, as well as over 200 full-time faculty members dedicated to providing our students with a post-secondary education conducive to intellectual and personal growth. As a member of one of the most research-intensive departments on the StFX campus, you will have the opportunity to work one-on-one with your supervisor on an innovative research project. StFX offers graduate studies at the MSc and PhD levels and at any given time, 20 or more graduate students are active within the department. Graduate students have a peer group that enroll in common courses and students have a close collaborative relationship with their supervisor that is characteristic of small universities. For more information, visit <http://www.earthsci.ca/>.

St. Francis Xavier University is committed to equity and diversity and encourages applications from all qualified candidates, including women; people of any sexual orientation, gender identity, or gender expression; Indigenous peoples; visible minorities, and racialized people; and people with disabilities. All qualified candidates are encouraged to apply. The review of applications will begin immediately and continue until the positions are filled.

For more information or if you have any questions, please contact Dr. Donnelly Archibald.

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